

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

Y1,X1 SERIES

AC. CAPACITORS

Applications:

- For use in circuit where alternating, pulsating, intermittent and steady high voltage exist.



Approved/Recognized Type

Related Standard	Certificate NO.	Approved Monogram
CSA (Canada)	CSA-22.2No.1-98	
UL (USA)	UL1414	
VDE (Germany)	EN 132 400 / IEC 60384-14 (VDE 0565 Teil 1-1)	
SEMKO (Sweden)	EN 132 400 / IEC 60384-14	
SEV (Switzerland)	EN 132 400 / IEC 60384-14	
FIMKO (Finland)	EN 132 400 / IEC 60384-14	
NEMKO (Norway)	EN 132 400 / IEC 60384-14	
DEMKO (Denmark)	EN 132 400 / IEC 60384-14	
NEMKO CB	IEC 60384-14 Table 2nd(1993)	

Part Number Configuration

<u>JD</u>	<u>102</u>	<u>K</u>	<u>Y5P</u>	<u>Y1</u>	(1)AC capacitors,safety	(4)Type code: Y5P,Y5U
(1)	(2)	(3)	(4)	(5)	(2)Rated capacitance	(5)Class Y1
					(3)Tolerance on rated capacitance	

Specifications

Operating Temp. Range	-25°C to +85°C		
Rated Voltage	Applicable Standards		X1 Y1
	CSA, UL		250V AC
	SEMKO,SEV,FIMKO, NEMKO,DEMKO,VDE(0565 Teil 1-1)	400V AC	400V AC
Dielectric Withstanding Voltage	Rated Voltage		Test Voltage
	400 V AC		4000 V AC for 1 min
Dissipation Factor (D.F)	Y5P	TAN δ≅2.5%,measured at 1KHz ±10%,1.0-5.0 Vrms,25°C	
	Y5U	TAN δ ≅2.5%,measured at 1KHz ±10%,1.0-5.0 Vrms,25°C	
Capacitance(C)	Range 100pF to 4700pF. measured at 1KHz ±10%,1.0-5.0 Vrms,25°C		
	Tolerance	±10%	Y5P
		±20%	Y5U

Insulation Resistance(IR)	10000MΩmin, 500Vdc		
Temperature	Type Code	Cap. Change	Temp. Range
Characteristics	Y5P	10%,max.	-25°C to +85°C
	Y5U	+20%,-55%max.	-25°C to +85°C
The reference temperature:25°C			

Y1 SERIES

INTRODUCTION

These Ceramic Disc Capacitors are specifically designed for AC applications and meet the safety requirements of various safety standards agencies. These capacitors are ideal for across the line and line by-pass applications

FEATURES

- Ideal for across the line applications
- Compact size
- Cost effective product
- Safety standards recognized for AC applications

GENERAL SPECIFICATIONS

Operating temperature range:	-25°C to 85°C
Capacitance range:	100pF to 4700pF
Capacitance tolerance:	K= ±10%,M= ± 20%
Rated voltage:	400 V AC.Please refer to table for approval file number.
Temperature coefficient:	±10% for B(Y5P), +20 to -55% for E(Y5U)
Dissipation factor (tan δ):	Y5P:2.5%max. at 25°C and 1KHz, 1±0.2Vrms.
	Y5U: 2.5%max. at 25°C and 1KHz, 1±0.2Vrms.
Insulation resistance at 25°C :	10000MΩ at 500V DC for 1 minute.
Dielectric strength:	4000 V AC for 60 seconds-AC 400V

CAPACITANCE AND DIMENSIONS

When ordering safety standard recognized ceramic capacitors please use the part numbers as noted above

Rated:400VAC for Y1

PART NUMBER	T.C.	CAP.	TOL.	DIMENSION(mm)		
				D max	F	Tmax
JD101KY5P Y1	±10%(Y5P)	100PF	K±10%	8	9.5 ±0.8	8
JD151KY5P Y1		150PF		8	9.5 ±0.8	8
JD221KY5P Y1		220PF		8	9.5 ±0.8	8
JD331KY5P Y1		330PF		9	9.5 ±0.8	8

JD471KY5P Y1	+20~-55%(Y5U)	470PF	M±20%	10	9.5 ±0.8	8
JD561KY5P Y1		560PF		10	9.5 ±0.8	8
JD681KY5P Y1		680PF		11	9.5 ±0.8	8
JD102KY5P Y1		1000PF		12	9.5 ±0.8	8
JD102MY5U Y1		1000PF		8	9.5 ±0.8	8
JD152MY5U Y1		1500PF		9	9.5 ±0.8	8
JD222MY5U Y1		2200PF		11	9.5 ±0.8	8
JD332MY5U Y1		3300PF		14	9.5 ±0.8	8
JD392MY5U Y1		3900PF		16	9.5 ±0.8	8
JD472MY5U Y1		4700PF		17	9.5 ±0.8	8

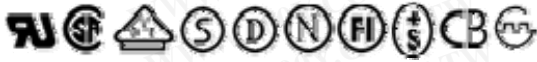
Dimensions and Tolerance

B=3.0mm max for AA or 4.0mm max for A2

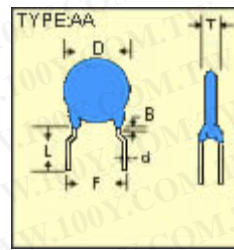
d=0.60mm ±0.05mm

F=9.5 ±0.8mm

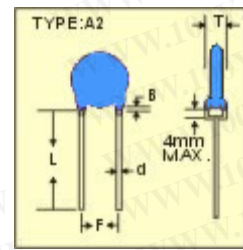
L=5~25mm



Y1, X1 AC400V



Only use in short pin.



Only use in long pin.